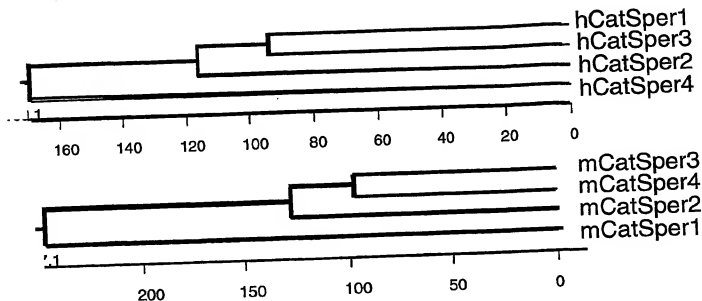## FIGURE 1

```
MSQHFHHNPV RVKSGSLFAT ASEALQARLS KIKRKDKECQ AYFRKVIKST    0050
FFQIVMITTV TTNSFLLVLG TNYDIQFEFF RTFEVSELFF VSVYVCEFLM    0100
KVYVDPITYW KDGYNILDVI ILILTIPYL LRKIKGNHSA YLHFADGIQS     0150
LRILKLISYS RGIRTLIIAV GETVYTVASV LTLLFLLMFV FAILGFCLFG    0200
VTDRGDLENW GNLASAFFTL FSLATVDGWT DLQEELDKRK FTVSRAFTIL    0250
FILLASFIFL NMFVGVMIMH TEDSMKKFER DLTLERNLAI MEEKQIILKR    0300
QQEEVNRLMN TQKTGSMNFI DMVEGFKKTL RHTDPMVLDD FSTSLSFIDI    0350
YLVTLDNQDV IVSKLQELYC EIVNVLSLML EDMPKESSSS LSGLS         0395
```

FIGURE 2

```
MSQHRHQRHS RVISSSPVDT TSVGFCPTFK KFKRNDDECR AFVKRVIMSR    0050
FFKIIMISTV TSNAFFMALW TSYDIRYRLF RLLEFSEIFF VSICTSELSM    0100
KVYVDPINYW KNGYNLLDVI IIIVMFLPYA LRQLMGKQFT YLYIADGMQS    0150
LRILKLIGYS QGIRTLITAV GQTVYTVASV LLLLFLLMYI FAILGFCLFG    0200
SPDNGDHDNW GNLAAAFFTL FSLATVDGWT DLQKQLDNRE FALSRAFTII    0250
FILLASFIFL NMFVGVMIMH TEDSIRKFER ELMLEQQEML MGEKQVILQR    0300
QQEEISRLMH IQKNADCTSF SELVENFKKT LSHTDPMVLD DFGTSLPFID    0350
IYFSTLDYQD TTVHKLQELY YEIVHVLSLM LEDLPQEKPQ SLEKVDEK     0398
```

FIGURE 3

hCatSper3 and hCatSper1 are 21% identical
hCatSper3 and hCatSper2 are 22% identical
hCatSper4 and hCatSper1 are 17% identical
hCatSper4 and hCatSper2 are 21% identical

mCatSper3 and mCatSper1 are 20% identical
mCatSper3 and mCatSper2 are 22% identical
mCatSper4 and mCarSper1 are 22% identical
mCatSper4 and mCatSper2 are 22% identical

hCatSper1 and mCatSper1 are 48% identical
hCatSper2 and mCatSper2 are 71% identical
hCatSper3 and mCatSper3 are 68% identical
hCatSper4 and mCatSper4 are 65% identical

SEQ ID NO: 1 (Human CatSper4 cDNA)
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ATGTCCAAC ACCGTCACCA GCGCCACTCG AGAGTCATTT CTAGTTCACC   0050
AGTTGACACT ACATCGGTGG GATTTTGCCC AACATTCAAG AAATTTAAGA   0100
GGAACGATGA TGAATGTCGG GCATTTGTGA AGAGAGTCAT AATGAGCCGT   0150
TTCTTTAAGA TAATTATGAT TAGCACTGTC ACATCGAATG CGTTTTTTAT   0200
GGCCTTGTGG ACCAGTTATG ACATAAGGTA CCGCTTGTTC AGACTTCTTG   0250
AGTTCTCGGA GATCTTCTTT GTGTCCATCT GCACATCTGA GTTGTCCATG   0300
AAGGTCTATG TGGACCCCAT CAACTACTGG AAGAACGGCT ACAACCTGCT   0350
GGATGTGATC ATTATCATCG TTATGTTTTT ACCCTATGCC CTCCGCCAGC   0400
TCATGGGCAA ACAGTTCACT TACCTGTATA TCGCTGATGG CATGCAGTCC   0450
CTGCGCATCC TCAAGCTTAT CGGCTATAGC CAGGGCATCC GGACGCTGAT   0500
CACCGCCGTG GGGCAGACAG TCTACACCGT GGCCTCTGTG CTCCTCCTGC   0550
TCTTCCTCCT CATGTACATC TTCGCTATCT TGGGCTTCTG CCTGTTTGGA   0600
TCTCCAGACA ATGGTGACCA TGATAACTGG GGGAACCTGG CTGCAGCTTT   0650
TTTCACCCTC TTCAGCTTGG CCACGGTTGA TGGCTGGACA GACCTGCAGA   0700
AGCAGTTGGA CAATCGGGAA TTTGCTTTGA GCCGGGCATT CACCATCATC   0750
TTCATCTTGC TCGCCTCTTT CATCTTCCTC AACATGTTCG TGGGTGTGAT   0800
GATCATGCAC ACAGAGGACT CCATCAGAAA GTTTGAGCGA GACGTGATGT   0850
TGGAGCAGCA GGAGATGCTC ATGGGAGAGA AGCAGGTGAT TCTGCAGCGG   0900
CAGCAGGAGG AGATCAGCAG GCTGATGCAC ATACAGAAAA ATGCTGACTG   0950
CACAAGTTTC AGTGAGCTGG TGGAGAACTT TAAGAAGACC TTGAGCCACA   1000
CTGACCCAAT GGTCTTGGAT GATTTTGGCA CTAGCTTACC CTTCATCGAT   1050
ATCTACTTTT CCACTCTGGA CTACCAGGAC ACAACTGTCC ACAAGCTTCA   1100
AGAGCTGTAC TATGAGATCG TGCATGTGCT GAGCCTAATG CTGGAAGACT   1150
TGCCCCAGGA GAAGCCCCAG TCCTTGGAAA AGGTGGATGA GAAGTAG       1197
```

SEQ ID NO: 2 (Human CatSper4 Protein Sequence)
```
MSQHRHQRHS RVISSSPVDT TSVGFCPTFK KFKRNDDECR AFVKRVIMSR   0050
FFKIIMISTV TSNAFFMALW TSYDIRYRLF RLLEFSEIFF VSICTSELSM   0100
KVYVDPINYW KNGYNLLDVI IIVMFLPYA LRQLMGKQFT YLYIADGMQS    0150
LRILKLIGYS QGIRTLITAV GQTVYTVASV LLLLFLLMYI FAILGFCLFG   0200
SPDNGDHDNW GNLAAAFFTL FSLATVDGWT DLQKQLDNRE FALSRAFTII   0250
FILLASFIFL NMFVGVMIMH TEDSIRKFER ELMLEQQEML MGEKQVILQR   0300
QQEEISRLMH IQKNADCTSF SELVENFKKT LSHTDPMVLD DFGTSLPFID   0350
IYFSTLDYQD TTVHKLQELY YEIVHVLSLM LEDLPQEKPQ SLEKVDEK     0398
```

SEQ ID NO: 3 (Murine CatSper 4 cDNA)
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ATGTCCCAAC ATTTTCACCA CAACCCTGTA CGAGTCAAGT CGGGCTCACT   0050
GTTTGCTACA GCATCGGAAG CATTGCAGGC AAGACTGAGC AAGATTAAGA   0100
GGAAGGATAA GGAGTGCCAG GCTTACTTCA GGAAGGTTAT TAAGAGCACT   0150
TTCTTCCAGA TTGTGATGAT CACCACGGTC ACCTCGAATG CCTTTTTCAT   0200
GGTCTTGGGG ACTAATTATG ACATACAATT CGAGTTTTTC AGAACCTTTG   0250
AGGTCTCCAGA GCTTTTCTTT GTATCTGTCT ATGTCTGCGA GTTCGTCATG   0300
AAGGTCTATG TGGACCCCAT TACATACTGG AAGGATGGCT ATAACATACT   0350
TCAAGGGGAA TCATTCTGCA TACCTCCACT TTGCTGATGG CATCCAGTCT   0400
CTACGAATCC TCAAGCTTAT CTCCTACAGT AGGGGCATCA GGACACTCAT   0450
CATCGCTGTG GGGGAGACGG TCTACACTGT GGCCTCTGTG CTGACGCTGC   0500
TCTTCCTCCT CATGTTTGTG TTCGCGATCC TGGGATTCTG CCTATTTGGC   0550
GTGACGGACA GAGGCGACCT GGAGAACTGG GGGAACCTGG CTTCAGCTTT   0600
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AAGAGCTGGA CAAGAGGGAA GTTTACTGTGA GCCGGGCGTT TACTATCCTC   0700
TTCATCCTGC TTGCATCCTT CATCTTCCTC AACATGTTTG TGGGTGTGAT   0750
GATCATGCAC ACGGAGGATT CCATGAAAAA GTTTGAGCGG GATCTGACGT   0800
TGGAGAGGAA CCTTGCGATT ATGGAGGAGA AGCAAATAAT CCTGAAACGC   0850
CAGCAAGAGG AGGTCAACAG GCTGATGAAC ACACAGAAAA CTGGTAGCAT   0900
GAACTTCATT GATATGGTGG AGGGCTTCAA GAAGACCCTG CGGCACACAG   0950
ACCCCATGGT TCTGGATGAC TTCAGCACTA GTCTCTCCTT CATTGATATC   1000
TACTTGGTCA CACTGGACAA CCAAGATGTT ATTGTCAGCA AGCTTCAGGA   1050
                                                         1100
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GCTCTACTGT GAGATTGTGA ACGTGCTGAG CCTGATGTTG GAAGACATGC    1150
CCAAGGAGAG CTCGTCCAGC CTCTCGGGAC TAAGTTAA                 1188
```

SEQ ID NO: 4 (Murine CatSper4 Protein Sequence)

```
MSQHFHHNPV RVKSGSLFAT ASEALQARLS KIKRKDKECQ AYFRKVIKST    0050
FFQIVMITTV TTNSFLLVLG TNYDIQFEFF RTFEVSELFF VSVYVCEFLM    0100
KVYVDPITYW KDGYNILDVI ILILTIPYL LRKIKGNHSA YLHFADGIQS     0150
LRLKLISYS RGIRTLIIAV GETVYTVASV LTLLFLLMFV FAILGFCLFG     0200
VTDRGDLENW GNLASAFFTL FSLATVDGWT DLQEELDKRK FTVSRAFTIL    0250
FILLASFIFL NMFVGVMIMH TEDSMKKFER DLTLERNLAI MEEKQIILKR    0300
QQEEVNRLMN TQKTGSMNFI DMVEGFKKTL RHTDPMVLDD FSTSLSFIDI    0350
YLVTLDNQDV IVSKLQELYC EIVNVLSLML EDMPKESSSS LSGLS         0395
```

SEQ ID NO: 5 (hCatSper4 5' flanking sequence containing basal promoter region)

```
ACAGGCATGA GCCACCGCGC TTGGCCAGAA GTGGCATTCT TAAATTCAAG    0050
AAATTGGGAT GGGGAGTATT CACACATTTT ATAACCCAGA AATTCAAGCA    0100
ATTCTGGTGA CTACAAATGC ATTGTTTTGG AGAATAGTTG TAAGGTGGAA    0150
AAAGAATTAG GAACTCGACA GATAGTGAGT TTTAACTTTA AATAACAATT    0200
CTTCTTTTGT TTTGTTTTGT TTGAGACGGG GTCTCGCTCT GCTGCCCAGG    0250
CTGGAGTGCA GTGGCAGGAT CACGGTTTAT TGCAGCCTTA ACCTCCTGGG    0300
CTCAAGCAGT TCTCCCTCCT CAGCCTCCAG AGTAGCTGGG ACTATAGGCA    0350
AGTGCCACCA CGCCTGACTA ATTTTTAAAT TTTTTGTAGA GATGGGGTCT    0400
CCCATCTTGC CCAGGCTGGC CTTGAACTCT TGGGCTCAAG CAAGCCTCCC    0450
ACCTCTGCCT CCCAAAGTCC AAGGATTACA GGTGTGAGCC ATTGCCCCCA    0500
GCCAGTATAA CAGTTTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT    0550
GTTTGACACG GGGTCTCATT CTGTTGCCCA GGCAGTAGTG TAGTGGTGCG    0600
ACCATGGCTC ACTGTAGTCT TGACTTCTCA GGCTCAAGTG ATCCTCTCAC    0650
CTCAGCCTCC TGAGTAGCAG CGGTTACAGG CATGCATCAC CACACCTGGC    0700
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ATTTTTATTT ATTTATTTTT AATAATTATA CAAGATGGAG TCTCACTATG    0900
TTGCCCAGGC TGGTCTTGAA TGCCTGGGCT CAAATGATCT TCCTGCCTIG    0950
ACCCCCCAAA GTGCTGGGAT TACAGGCGTG AGCCACTGCG CCTGGCCTAT    1000
AACAATTCTT ATGAAGCTAA AGTTGATTTG GATTTTAGCT GCCGTTACTA    1050
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ACAAGTGTCT TGTCTGTGGC TTCCAGGAAT GTGTGGCAAT ATAAGATTTA    1200
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GTAGTGAGCT CTACTTACTC CATGTGTCAC TGACAGATGT AAAAAGGAAT    1400
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ACCCCTATAT CCTTCAGTAA GTTTCTATGG AAAATATGGC CATTTTCTTG    2250
TATAAACCAC AGTACCTCTG TTTTTTTTTT TTGAGATAGA GTCTCACACT    2300
GTCGCCCAGG CTGGAGTGCA ATGGCGTGAT CTTGGCTCAC TGCAACCTCT    2350
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TCCCCGGCTA TCTGTGGCTG AGATGGTGCT GCTTAGGTCA CGCAGAGCAT  3950
GAGCTGCTGC TGAAAGGGCA CAGGAGATGG CCCTTGGGCT TCTCATCCCA  4000
GGATGCCTGC CCTGCCCACC AATCCATGAG AAGATATGTA TGATTTCAGT  4050
AGGCCCTGGA TCAGCTTGTC ACCTCTGGTT TCCTGTTTGC TTTCCACTCA  4100
CTCAGCTGGA GTTTCATTTC CAGACTAAAG TCTTCATCAT TGGCTTCAGA  4150
AACAGCATTC ATCTGTGGCT GTGCTGAGTGT AGTACACCAA GAACAACTGG  4200
GCTCTTCTCT GTCACTTTCA GTGGGCTACC TTCCCTCACC TCTCCAAGCA  4250
GCATGAAAGA ATTCTTTACA TTTTTAATCT CTTTTTTGTT TTTCCCTGAA  4300
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CTCACTATCT TGCTCAGGCT AGTCCTGGAAC TCCTGGGCTC AAGTTATCTT
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GGAGATGGAG TTTCGCTCTT GTCGCCCAGG CTGGAGTGCA ATGGCACGAT    5500
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CCAGAGCCTC ATGATTGCTG GGTGCCCATA GCCTTTTTGC TGAATGGAGG    6200
CACTCAGTCT CCTTGGGAAG AGAGAATCCA TGATAGACCC ACTTGGGAGC    6250
TCCCCACTTC AGGGGCCTAC ACACTGGTAA TGCAACAGAA TGCCCAAGAG    6300
TGACCTCATA AAGCAAGGAT TCCCTTCGTG GCCCCTTCTC TGCTGCCTCT    6350
CAGAATCC                                                 6358
```

SEQ ID NO: 6 (hCatSper4 5' UTR Sequence)
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AGACGCTAAG GAAAATCCCT AAGCAGAGAT TTTCTGTTGG ATGCTAAAAG    0050
CAAGGAATAA AAGTTGAAAA TTTGGAAA                            0078
```

SEQ ID NO: 7 (hCatSper4 3' UTR Sequence)
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CCTATTAAAC ACAGGCTTTC TG                                  0072
```